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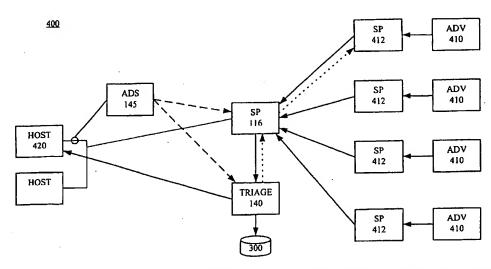
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEMS AND METHODS THAT PROTECT NETWORKS AND DEVICES AGAINST DENIAL OF SERVICE ATTACKS



(57) Abstract: A system protects communication networks and devices against denial of service (DoS) attacks. A service provider (116) receives a signal indicating that a DoS attack has been detected, receives one or more packets intended for a victim device (420), and transmits the one or more packets to a triage device (140). The triage device determines whether each of the one or more packets is part of the DoS attack and forwards only packets that are deemed unrelated to the DoS attack to the victim device (420).

02/025402 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/29336

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04L, 9/10 US CL : 713/200 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 713/200, 153, 154; 709/224, 225, 226				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.	
X,P	VAZHKUDAI, S.; MAGINNIS, T., A High Performance Communication Subsystem for PODOS, Mississippi University, Mississippi. December 1999, pages 81-91, especially pages 81 (8th paragraph) and 84 (2-3rd paragraph), and especially page 86.			
X,P	US 6,298,445 B1 (SHOSTACK, et al.) 02 October 2001, see COL.5, lines 20-51; COL.6, lines 36-55; COL.7, lines 37-65; COL.12, lines 14-55			
Α	US 6,301,668 B1 (GLEICHAUF, et al.) 09 October 2001, see COL.5, lines 39-51; 1-36 COL.6, lines 37-60; COL8., lines35-57; COL.9, lines 49-54		1-36	
Α.	SMITH, R.; BHATTACHARYA, S., Operating Firewalls Outside the LAN Perimeter, Motorola Inc., Arizona. February 1999, pages 493-498.		1-36	
A	US 5,958,053 A (DENKER) 28 September 1999, see COL.6, lines 20-60; FIG.4, COL.7, lines 5-45; COL.9, lines 35-59; COL.15, lines 23-65; COL.16		1-36	
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Further	documents are listed in the continuation of Box C.	See patent family annex.		
• s	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic		
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the inve	ention	
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"O" document	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	ne art	
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Date of the actual completion of the international search		Date of mailing of the international search report 18 APR 2002		
26 January 2002 (26.01.2002) Name and mailing address of the ISA/US		Authorized officer		
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INTERNATIONAL SEARCH REPORT	PCT/US01/29336
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Continuation of B. FIELDS SEARCHED Item 3: EAST TEXT: denial\$ adj servic\$, L1 and packets, L2 and signature\$, L3 and provider\$ NPL PAGE: dos or ((denial of service) and packet)